



PATENT
Attorney Docket No. SNS-013
(081028/158562)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Berger et al. CONFIRMATION NO.: 8061
SERIAL NO.: 10/733,862 GROUP NO.: 2676
FILING DATE: December 10, 2003 EXAMINER: Caschera, Antonio A.
TITLE: APPARATUS AND METHODS FOR WRAPPING TEXTURE ONTO
THE SURFACE OF A VIRTUAL OBJECT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with 37 C.F.R. 1.98(a)(2), only copies of the foreign patent documents and non-patent publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☐ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☒ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☒ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

07/10/2006 HDESTA1 00000072 10733862

180.00 OP
02 FC:1806

- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

In addition, Applicant wishes to call to the Examiner's attention Office Actions issued in the following commonly-owned, co-pending patent application:

U.S. Patent Application No. 09/574,131, filed on 5/18/2000 by Tarr et al.;

U.S. Patent Application No. 10/055,565, filed on 10/26/2001 by Zilles et al.;

U.S. Patent Application No. 10/650,155, filed on 8/28/2003 by Goodwin et al.;

U.S. Patent Application No. 10/697,174, filed on 10/30/2003 by Levene et al.;

U.S. Patent Application No. 10/697,548, filed on 10/30/2003 by Levene et al.;

U.S. Patent Application No. 10/697,963, filed on 10/30/2003 by Massie et al.;

U.S. Patent Application No. 10/733,860, filed on 12/10/2003 by Berger;

U.S. Patent Application No. 10/733,862, filed on 12/10/2003 by Berger et al.;

U.S. Patent Application No. 10/844,257, filed on 5/12/2004 by Shih et al.;

U.S. Patent Application No. 10/856,699, filed on 5/28/2004 by Berger et al.;

U.S. Patent Application No. 10/900,034, filed on 7/27/2004 by Handley et al.;

U.S. Patent Application No. 10/990,226, filed on 11/16/2004 by Massie et al.;

U.S. Patent Application No. 11/053,592, filed on 2/28/2005 by Payne;

U.S. Patent Application No. 11/169,175, filed on 6/28/2005 by Itkowitz et al.;

U.S. Patent Application No. 11/169,271, filed on 6/28/2005 by Itkowitz et al.;

U.S. Patent Application No. 11/179,038, filed on 7/11/2005 by Jennings et al.;

U.S. Patent Application No. 11/231,347, filed on 9/20/2005 by Rodomista et al.; and

International Patent Application No. PCT/US2005/027643, filed on 8/4/2005 by Rawley et al.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Date: July 6, 2006
Reg. No. 53,002

Tel. No.: (617) 570-1013
Fax No.: (617) 523-1231
VER 11/03

Respectfully submitted,



William R. Haulbrook, Ph.D.
Atty/Agent for Applicant(s)
Goodwin Procter LLP
Exchange Place
Boston, Massachusetts 02109
Customer No. 051414



Express Mail Mailing Label No. EQ 693279555 US

FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: SNS-013

APPLICANT(S): Berger et al.

SERIAL NO.: 10/733,862

FILING DATE: December 10, 2003 GROUP: 2676

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	D377,932	02/11/97	Schena <i>et al.</i>			
	A2	D510,739	10/18/2005	Jones <i>et al.</i>			
	A3	2,475,484	07/05/49	DeNise			
	A4	3,168,203	02/01/65	Gallistel			
	A5	3,263,824	08/02/66	Jones <i>et al.</i>			
	A6	3,449,008	06/10/69	Colechia			
	A7	3,531,868	10/06/70	Stevenson			
	A8	3,618,786	11/09/71	Fick			
	A9	3,637,092	01/01/72	George <i>et al.</i>			
	A10	3,920,972	11/18/75	Corwin <i>et al.</i>			
	A11	3,944,798	03/16/76	Eaton			
	A12	4,062,455	12/13/77	Flatau			
	A13	4,150,803	04/24/79	Fernandez			
	A14	4,216,467	08/05/80	Colston			
	A15	4,302,138	11/24/81	Zarudiansky			
	A16	4,367,532	01/04/83	Crum <i>et al.</i>			
	A17	4,420,808	12/13/83	Diamond <i>et al.</i>			
	A18	4,521,685	06/04/85	Rebman			
	A19	4,604,016	08/05/86	Joyce			
	A20	4,632,341	12/30/86	Repperger <i>et al.</i>			
	A21	4,638,798	01/27/87	Shelden <i>et al.</i>			
	A22	4,653,011	03/24/87	Iwano			
	A23	4,654,648	03/31/87	Herrington <i>et al.</i>			
	A24	4,655,673	04/07/87	Hawkes			
	A25	4,661,032	04/28/87	Arai			

EXAMINER

DATE CONSIDERED

FORM PTO - 1449				ATTORNEY DOCKET NO.: SNS-013			
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Berger et al.			
				SERIAL NO.: 10/733,862			
				FILING DATE: December 10, 2003 GROUP: 2676			
	A26	4,670,851	06/02/87	Murakami <i>et al.</i>			
	A27	4,676,002	06/30/87	Slocum			
	A28	4,680,519	07/14/87	Chand <i>et al.</i>			
	A29	4,686,522	08/11/87	Hernandez <i>et al.</i>			
	A30	4,703,443	10/27/87	Moriyasu			
	A31	4,729,098	03/01/88	Cline <i>et al.</i>			
	A32	4,769,763	09/06/88	Trieb <i>et al.</i>			
	A33	4,791,934	12/20/88	Brunnett			
	A34	4,795,296	01/03/89	Jau			
	A35	4,800,721	01/31/89	Cemenska <i>et al.</i>			
	A36	4,819,195	04/04/89	Bell <i>et al.</i>			
	A37	4,823,634	04/25/89	Culver			
	A38	4,837,734	06/06/89	Ichikawa <i>et al.</i>			
	A39	4,839,838	06/13/89	LaBiche <i>et al.</i>			
	A40	4,853,874	08/01/89	Iwamoto <i>et al.</i>			
	A41	4,888,538	12/19/89	Dimitrov <i>et al.</i>			
	A42	4,893,981	01/16/90	Yoshinada <i>et al.</i>			
	A43	4,907,970	03/13/90	Meenen, Jr.			
	A44	4,907,973	03/13/90	Hon			
	A45	4,942,538	07/17/90	Yuan <i>et al.</i>			
	A46	4,945,305	07/31/90	Blood			
	A47	4,945,501	07/31/90	Bell <i>et al.</i>			
	A48	4,961,138	10/02/90	Gorniak			
	A49	4,973,111	11/1990	Haacke <i>et al.</i>			
	A50	4,973,215	11/27/90	Karlen <i>et al.</i>			
	A51	4,982,504	01/08/91	Söderberg <i>et al.</i>			
	A52	4,988,981	01/29/91	Zimmerman <i>et al.</i>			
	A53	5,004,391	04/02/91	Burdea			

EXAMINER	DATE CONSIDERED
-----------------	------------------------

FORM PTO - 1449					ATTORNEY DOCKET NO.: SNS-013		
INFORMATION DISCLOSURE STATEMENT					APPLICANT(S): Berger et al.		
					SERIAL NO.: 10/733,862		
					FILING DATE: December 10, 2003 GROUP: 2676		
	A54	5,007,300	04/16/91	Siva			
	A55	5,018,922	05/28/91	Yoshinada <i>et al.</i>			
	A56	5,019,761	05/28/91	Kraft			
	A57	5,038,089	08/06/91	Szakaly			
	A58	5,040,306	08/20/91	McMurtry <i>et al.</i>			
	A59	5,044,956	09/03/91	Behensky <i>et al.</i>			
	A60	5,053,975	10/01/91	Tsuchihashi <i>et al.</i>			
	A61	5,072,361	12/10/91	Davis <i>et al.</i>			
	A62	5,088,046	02/11/92	McMurtry			
	A63	5,088,055	02/11/92	Oyama			
	A64	5,103,404	04/07/92	McIntosh			
	A65	5,105,367	04/14/92	Tsuchihashi <i>et al.</i>			
	A66	5,116,051	05/26/92	Moncrief <i>et al.</i>			
	A67	5,116,180	05/26/92	Fung <i>et al.</i>			
	A68	5,130,632	07/14/92	Ezawa <i>et al.</i>			
	A69	5,131,844	07/21/92	Marinaccio <i>et al.</i>			
	A70	5,142,931	09/01/92	Menahem			
	A71	5,143,505	09/01/92	Burdea <i>et al.</i>			
	A72	5,184,319	02/02/93	Kramer			
	A73	5,185,561	02/09/93	Good <i>et al.</i>			
	A74	5,189,806	03/02/93	McMurtry <i>et al.</i>			
	A75	5,193,963	03/16/93	McAffee et al			
	A76	5,204,824	04/20/93	Fujimaki			
	A77	5,220,260	06/15/93	Schuler			
	A78	5,223,776	06/29/93	Radke <i>et al.</i>			
	A79	5,237,647	08/17/93	Roberts, <i>et al.</i>			
	A80	5,239,246	08/24/93	Kim			
	A81	5,255,211	10/19/93	Redmond			

EXAMINER	DATE CONSIDERED
-----------------	------------------------

FORM PTO - 1449				ATTORNEY DOCKET NO.: SNS-013			
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Berger et al.			
				SERIAL NO.: 10/733,862			
				FILING DATE: December 10, 2003 GROUP: 2676			
	A82	5,264,768	11/23/93	Gregory <i>et al.</i>			
	A83	5,266,875	11/30/93	Slotine <i>et al.</i>			
	A84	5,333,257	07/26/94	Merrill, <i>et al.</i>			
	A85	5,354,162	10/11/94	Burdea <i>et al.</i>			
	A86	5,382,885	01/17/95	Salcudean <i>et al.</i>			
	A87	5,389,865	02/14/95	Jacobus <i>et al.</i>			
	A88	5,396,265	03/07/95	Ulrich <i>et al.</i>			
	A89	5,414,337	05/09/95	Schuler			
	A90	5,429,140	07/04/95	Burdea <i>et al.</i>			
	A91	5,438,529	08/01/95	Rosenberg <i>et al.</i>			
	A92	5,446,834	08/29/95	Deering			
	A93	5,459,382	10/17/95	Jacobus <i>et al.</i>			
	A94	5,482,051	01/09/96	Reddy <i>et al.</i>			
	A95	5,489,830	02/06/96	Fernandez			
	A96	5,497,452	03/05/96	Shimizu <i>et al.</i>			
	A97	5,506,785	04/1996	Blank <i>et al.</i>			
	A98	5,515,078	05/07/96	Greschler <i>et al.</i>			
	A99	5,555,894	09/17/96	Doyama <i>et al.</i>			
	A100	5,559,412	09/24/96	Schuler			
	A101	5,576,727	11/19/96	Rosenberg <i>et al.</i>			
	A102	5,587,937	12/24/96	Massie <i>et al.</i>			
	A103	5,589,854	12/31/96	Tsai			
	A104	5,623,582	04/22/97	Rosenberg			
	A105	5,623,642	04/22/97	Katz <i>et al.</i>			
	A106	5,625,576	04/29/97	Massie <i>et al.</i>			
	A107	5,629,594	05/13/97	Jacobus <i>et al.</i>			
	A108	5,642,469	06/24/97	Hannaford <i>et al.</i>			
	A109	5,659,493	08/19/97	Kiridena, <i>et al.</i>			

EXAMINER	DATE CONSIDERED
-----------------	------------------------

FORM PTO - 1449				ATTORNEY DOCKET NO.: SNS-013			
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Berger et al.			
				SERIAL NO.: 10/733,862			
				FILING DATE: December 10, 2003 GROUP: 2676			
	A110	5,666,138	09/09/97	Culver			
	A111	5,691,898	11/25/97	Rosenberg <i>et al.</i>			
	A112	5,694,013	12/02/97	Stewart <i>et al.</i>			
	A113	5,701,140	12/23/97	Rosenberg <i>et al.</i>			
	A114	5,721,566	02/24/98	Rosenberg <i>et al.</i>			
	A115	5,724,264	03/03/98	Rosenberg <i>et al.</i>			
	A116	5,731,804	03/24/98	Rosenberg			
	A117	5,734,373	03/31/98	Rosenberg <i>et al.</i>			
	A118	5,737,505	04/07/98	Shaw <i>et al.</i>			
	A119	5,739,811	04/14/98	Rosenberg <i>et al.</i>			
	A120	5,742,278	04/21/98	Chen <i>et al.</i>			
	A121	5,751,289	05/12/98	Myers			
	A122	5,754,023	05/19/98	Roston <i>et al.</i>			
	A123	5,767,839	06/16/98	Rosenberg			
	A124	5,769,640	06/23/98	Jacobus <i>et al.</i>			
	A125	5,774,130	06/30/98	Horikawa, <i>et al.</i>			
	A126	5,784,542	07/21/98	Ohm <i>et al.</i>			
	A127	5,790,108	08/04/98	Salcudean <i>et al.</i>			
	A128	5,798,752	08/25/98	Buxton <i>et al.</i>			
	A129	5,800,177	09/01/98	Gillio			
	A130	5,800,178	09/01/98	Gillio			
	A131	5,800,179	09/01/98	Bailey			
	A132	5,802,353	09/01/98	Avila <i>et al.</i>			
	A133	5,803,738	09/08/98	Latham			
	A134	5,805,140	09/08/98	Rosenberg <i>et al.</i>			
	A135	5,821,920	10/13/98	Rosenberg <i>et al.</i>			
	A136	5,825,308	10/20/98	Rosenberg			
	A137	5,828,197	10/27/98	Martin, <i>et al.</i>			

EXAMINER	DATE CONSIDERED
-----------------	------------------------

FORM PTO - 1449				ATTORNEY DOCKET NO.: SNS-013			
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Berger et al.			
				SERIAL NO.: 10/733,862			
				FILING DATE: December 10, 2003 GROUP: 2676			
	A138	5,831,408	11/03/98	Jacobus, <i>et al.</i>			
	A139	5,844,392	12/01/98	Peurach <i>et al.</i>			
	A140	5,847,956	12/08/98	Bronfeld, <i>et al.</i>			
	A141	5,859,934	01/12/99	Green			
	A142	5,872,438	02/16/99	Roston			
	A143	5,873,106	02/16/99	Joseph			
	A144	5,880,714	03/09/99	Rosenberg <i>et al.</i>			
	A145	5,881,178	03/1999	Tsykalov <i>et al.</i>			
	A146	5,882,206	06/16/99	Gillio			
	A147	5,889,670	03/30/99	Schuler <i>et al.</i>			
	A148	5,898,599	04/27/99	Massie, <i>et al.</i>			
	A149	5,903,270	05/11/1999	Gentry <i>et al.</i>			
	A150	5,903,456	05/11/99	Schena <i>et al.</i>			
	A151	5,903,886	05/11/99	Heimlich, <i>et al.</i>			
	A152	5,907,487	05/25/99	Rosenberg <i>et al.</i>			
	A153	5,913,727	06/22/99	Ahdoot			
	A154	5,929,607	07/27/99	Rosenberg <i>et al.</i>			
	A155	5,929,846	07/27/99	Rosenberg <i>et al.</i>			
	A156	5,956,484	09/21/99	Rosenberg <i>et al.</i>			
	A157	5,963,212	10/05/1999	Bakalash			
	A158	5,973,678	10/26/99	Stewart, <i>et al.</i>			
	A159	5,973,678	10/26/1999	Stewart			
	A160	5,988,862	11/23/99	Kacyra, <i>et al.</i>			
	A161	6,040,840	03/2000	Koshiba <i>et al.</i>			
	A162	6,061,004	05/2000	Rosenberg			
	A163	6,064,394	05/16/2000	Morrison			
	A164	6,084,587	07/04/00	Tarr <i>et al.</i>			
	A165	6,111,577	08/29/00	Zilles <i>et al.</i>			

EXAMINER	DATE CONSIDERED
-----------------	------------------------

FORM PTO - 1449				ATTORNEY DOCKET NO.: SNS-013			
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Berger et al.			
				SERIAL NO.: 10/733,862			
				FILING DATE: December 10, 2003 GROUP: 2676			
	A166	6,131,097	10/10/00	Peurach <i>et al.</i>			
	A167	6,191,796 B1	02/20/01	Tarr			
	A168	6,211,848	04/03/01	Plesniak <i>et al.</i>			
	A169	6,219,032	04/2001	Rosenberg <i>et al.</i>			
	A170	6,226,003	05/01/01	Akeley			
	A171	6,308,144	10/23/01	Bronfeld <i>et al.</i>			
	A172	6,337,678 B1	01/20/02	Fish			
	A173	6,342,880 B2	01/20/02	Rosenberg <i>et al.</i>			
	A174	6,369,834	04/09/02	Zilles, <i>et al.</i>			
	A175	6,384,822 B1	05/07/2002	Bilodeau <i>et al.</i>			
	A176	6,405,158	06/11/2002	Massie <i>et al.</i>			
	A177	6,417,638	07/09/02	Guy, <i>et al.</i>			
	A178	6,421,048	07/16/02	Shih <i>et al.</i>			
	A179	6,552,722	04/22/03	Shih <i>et al.</i>			
	A180	6,608,631	08/19/2003	Milliron			
	A181	6,671,651	12/30/03	Goodwin <i>et al.</i>			
	A182	6,707,458	03/2004	Leather <i>et al.</i>			
	A183	6,792,398	9/14/2004	Handley <i>et al.</i>			
	A184	6,831,640	12/14/2004	Shih <i>et al.</i>			
	A185	6,853,965	2/8/2005	Massie <i>et al.</i>			
	A186	6,879,315	4/12/2005	Guy <i>et al.</i>			
	A187	6,958,752	10/25/2005	Jennings <i>et al.</i>			
	A188	6,985,133	1/10/2006	Rodomista <i>et al.</i>			
	A189	20020075283	06/20/02	Payne			
	A190	20020089500	07/11/02	Jennings, <i>et al.</i>			
	A191	2002/0154132	10/2002	Dumesny <i>et al.</i>			
	A192	20020158842	10/31/02	Guy, <i>et al.</i>			
	A193	20030128208	07/10/03	Shih, <i>et al.</i>			

EXAMINER	DATE CONSIDERED
-----------------	------------------------

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT					ATTORNEY DOCKET NO.: SNS-013 APPLICANT(S): Berger et al. SERIAL NO.: 10/733,862 FILING DATE: December 10, 2003 GROUP: 2676				
---	--	--	--	--	--	--	--	--	--

	A194	2003/0117411	06/26/2003	Fujiwara <i>et al.</i>			
	A195	2003/0191554	10/09/2003	Russell <i>et al.</i>			
	A196	2005/0060130	03/2005	Shapiro <i>et al.</i>			
	A197	2005/0062738	03/2005	Handley <i>et al.</i>			
	A198	2005/0168460	08/2005	Razdan <i>et al.</i>			

FOREIGN PATENT DOCUMENTS									
EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)	
	B1	WO 95/02801	01/26/95	PCT					
	B2	WO 96/16397	05/30/96	PCT					
	B3	WO 96/22591	07/25/96	PCT					
	B4	WO 96/42078	12/27/96	PCT					
	B5	WO 97/06410	02/20/97	PCT					
	B6	WO 97/12337	04/03/97	PCT					
	B7	WO 97/12357	04/03/97	PCT					
	B8	WO 97/19440	05/29/97	PCT					
	B9	WO 97/21160	06/12/97	PCT					
	B10	WO 97/44775	11/27/97	PCT					
	B11	WO 98/06024	02/12/98	PCT					
	B12	WO 98/26342	06/18/98	PCT					
	B13	WO 98/30951	07/16/98	PCT					
	B14	WO 98/58308	12/23/98	PCT					
	B15	WO 98/58323	12/23/98	PCT					
	B16	WO 99/10872	03/04/99	PCT					
	B17	EP 0 915 434 A2	05/12/99	EP					
	B18	2389764	12/17/2003	GB					
	B19	2410351	07/27/2005	GB					

EXAMINER	DATE CONSIDERED
-----------------	------------------------

FORM PTO - 1449		ATTORNEY DOCKET NO.: SNS-013	
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S):	Berger et al.
		SERIAL NO.:	10/733,862
		FILING DATE:	December 10, 2003 GROUP: 2676
OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C1	Altmann, "About Nonuniform Rational B-Splines – NURBS," http://www.cs.wpi.edu/~matt/courses/cs563/talks/nurbs.html , printed 7/29/2003, 6 pgs.	
	C2	Apple Computer Inc., "OpenGL for Mac OS: Glossary," http://www.developer.apple.com/documentation/GraphicsImaging/Conceptual/OpenGL/glossary ..., printed August 2002, 3 pgs.	
	C3	Avid Technology, "Curves," printed 11/06/03, http://www.iro.umontreal.ca/~roys/softimage/html/model/curves.html , chapter 10, 19 pgs.	
	C4	Avid Technology, "Fundamentals of NURBS Modeling," printed 11/06/03, http://www.iro.umontreal.ca/~roys/softimage/html/model/nurbs_basics.html , chapter 9, 7 pgs.	
	C5	Avid Technology, "Surfaces," printed 11/06/03, http://www.iro.umontreal.ca/~roys/softimage/html/model/surfs.html , chapter 11, 22 pgs.	
	C6	Adachi, "Touch and Trace on the Free-Form Surface of Virtual Object," Proceedings of IEEE Virtual Reality Annual International Symposium, September 18-22, 1993, Seattle WA, pgs. 162-168.	
	C7	Agrawala <i>et al.</i> , "3D Painting on Scanned Surfaces", Stanford University, 1995, pgs 145-150.	
	C8	Barr, "Global and Local Deformations of Solid Primitives"; COMPUTER GRAPHICS; Vol. 18, No. 3, pgs. 21-30 (July, 1984).	
	C9	Bentley, "Rendering Cubic Bezier Patches," Worcester Polytechnic Institute, printed 11/17/03, http://www.cs.wpi.edu/~matt/courses/cs563/talks/surface/bez_surf.html , 10 pgs.	
	C10	Birn, "How to Model A Hairy Hippo Nose in Softimage 3D," http://www.3drender.com/jbirn/hippo/hairyhipponose.html , printed 7/29/03, 3 pgs.	
	C11	Birn, "Mental Ray Resources," http://www.3drender.com/ref/max.htm , printed 7/29/03, 4 pgs.	
	C12	Birn, "NurbsPatchHead.igs," http://www.turbosquid.com/HTMLClient/FullPreview/... printed 7/29/03, 1 pg.	
	C13	Birn, "Softimage's Surface Continuity Manager," http://www.3drender.com/ncf/index.html , printed 7/29/03, 2 pgs.	
	C14	Birn, "Tutorial: NURBS Head Modeling," printed 07/29/03, http://www.3drender.com/jbirn/ea/HeadModel.html , 5 pgs.	
	C15	Blinn, "Simulation of Wrinkled Surfaces," COMPUTER GRAPHICS, Volume 12-3, August 1978, pages 286-292.	
	C16	Brooks <i>et al.</i> , "Project GROPE - Haptic Displays for Scientific Visualization," COMPUTER GRAPHICS, Vol. 24, No. 4, August 1990, pgs. 177-185.	
	C17	Creating A Lathed NURBS Surface, http://www.maxhelp.com/content/tutorials/nurbs/nurbs.htm , printed 7/29/03, 3 pgs.	
	C18	CSB/SJU IT Services, "Color Depth and Color Spaces," http://www.csbsju.edu/itsevice/teaching/c_space/colors.htm , 9/12/03, 3 pgs.	
	C19	Decaudin, "Geometric Deformation by Merging a 3D-Object with a Simple Shape," Graphics Interface '96 Proceedings (Toronto, Canada), 6 pgs. (May 21-24, 1996).	
	C20	Digital Photography and Imaging Glossary, August 2000.	
	C21	Dworkin <i>et al.</i> , "A New Model for Efficient Dynamic," Fourth Eurographics Animation and Simulation Workshop Proceedings Eurographics Technical Report Series, ISSN 1017-4656, September 4-5, 1993, pp. 135-147.	
EXAMINER		DATE CONSIDERED	

FORM PTO - 1449		ATTORNEY DOCKET NO.: SNS-013
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Berger et al.
		SERIAL NO.: 10/733,862
		FILING DATE: December 10, 2003 GROUP: 2676
C22	Elhajj <i>et al.</i> , "Supermedia-Enhanced Internet-Based Telerobotics," Proceedings of the IEEE, Vol. 91, No. 3, pp. 396-421 (March 2003).	
C23	Farin, "NURBS," printed 11/17/03, www.eros.cagd.eas.asu.edu/~farin/rbook/toc.html , 2 pgs.	
C24	Fisher <i>et al.</i> , "Pixel Values," http://www.dai.ed.ac.uk/HIPR2/value.htm (1 pg.).	
C25	Foskey et al, "ArtNova: Touch-Enabled 3D Model Design," Proceedings of IEEE Virtual Reality 2002, March 24-28, 2002, Orlando, Florida pgs. 119-126.	
C26	Fuentes et al., "The Virtual Tool Approach to Dextrous Telemanipulation," Proceedings of the 1996 IEEE International Conference on Robotics and Automation (Minneapolis, MN), pp. 1700-1705 (April 1996).	
C27	Galyean, "Sculpting: An Interactive Volumetric Modeling Technique," Computer Graphics (SIGGRAPH '91 Las Vegas), Vol. 25, No. 4, pp. 267-274 (July 1991).	
C28	Geomagic, "geomagicshape," http://www.geomagic.com/products/shape/ , printed 11/26/03.	
C29	Gu <i>et al.</i> , "Global Conformal Surface Parameterization," Eurographics Symposium on Geometry Processing (2003), 12 pgs.	
C30	Hashimoto <i>et al.</i> , "Dynamic Force Simulator for Force Feedback Human-Machine Interaction", IEEE, September 1993, pp. 209-215.	
C31	Hirata <i>et al.</i> , "3-Dimensional Interface Device for Virtual Work Space," Proceedings of the 1992 IEEE, July 7-10, 1992, pp. 889-896.	
C32	Hirota <i>et al.</i> , "Development of Surface Display," Proceedings of the Virtual Reality Annual International Symposium (Seattle), pp. 256-262 (September 18-23, 1993).	
C33	Hirota <i>et al.</i> , "Providing Force Feedback in Virtual Environments", IEEE, September 1995, pp. 22-30.	
C34	"How to Create Complex Meshes With NURBS," http://www.geocities.com/SiliconValley/Lakes/2057/nurbs.html ., printed 7/29/03, 4 pgs.	
C35	Immersion Corporation, "Laparoscopic IMPULSE ENGINE: A New FORCE FEEDBACK Surgical Simulation Tool", Immersion Corporation, 1995. http://www.immerse.com/wwwpages/lapIEpg.htm	
C36	Immersion Corporation, "The IMPULSE ENGINE", 1 page, Immersion Corporation, 1996.	
C37	Immersion Corporation, "Virtual Laparoscopic Interface", Immersion Corporation, 1995, 1 pg.	
C38	Ishii <i>et al.</i> , "A 3D Interface Device with Force Feedback: A Virtual Work Space for Pick-and-Place Tasks", IEEE, September 1993, pp. 331-335.	
C39	Iwata, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics (SIGGRAPH '90 Dallas), Vol. 24, No. 4, pp. 165-170 (August 1990).	
C40	Jay Arraich's Photoshop Tips, "7 Quick Mask," http://www.arraich.com/ref/aatool-quick_mask6.htm , printed 9/12/03, 3 pgs.	
C41	Kelley <i>et al.</i> "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface Using an Electromagnetically Actuated Input/Output Device," Department of Electrical Engineering, University of British Columbia, Vancouver, BC, V6T 1Z4, Canada, October 19, 1993, pp. 1-27.	
C42	Komerska <i>et al.</i> , "Haptic Interface for Center-of-Workspace Interaction: Demonstration Paper," <u>Haptics Interfaces for Virtual Environments and Teleoperator Systems (2002)</u> , pp. 352-353.	
C43	Kotoku <i>et al.</i> , "A Force Display Algorithm for Virtual Environments," SICE, pp. 347-355, 1992.	
C44	Luo <i>et al.</i> , "Networked Intelligent Robots Through the Internet: Issues and Opportunities," Proceedings of the IEEE, Vol. 91, No. 3, pp. 371-382 (March 2003).	

EXAMINER	DATE CONSIDERED
-----------------	------------------------

FORM PTO - 1449		ATTORNEY DOCKET NO.: SNS-013
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Berger et al.
		SERIAL NO.: 10/733,862
		FILING DATE: December 10, 2003 GROUP: 2676
C45	MACADAC Engineering, Inc., "The power of 3D photography: Turning physical objects into digital assets," http://www.macadac.com/raindrop/studio.htm , printed 10/3/03, 4 pgs.	
C46	Marcus <i>et al.</i> , "EXOS Research on Master Controllers for Robotic Devices," Fifth Annual Workshop on Space Operations Applications and Research (SOAR '91) pp. 238-245, July 1991.	
C47	Massie, "Design of a Three Degree of Freedom Force-Reflecting Haptic Interface", Massachusetts Institute of Technology; Bachelor of Science in Electrical Science and Engineering Thesis, May, 1993, pgs. 1-38.	
C48	Massie, "Initial Haptic Explorations with the Phantom: Virtual Touch Through Point Interaction", Massachusetts Institute of Technology Master of Science Thesis, February, 1996, pgs. 1-49. (not admitted as prior art)	
C49	Math Forum, "What is a Tessellation?", http://mathforum.org/sum95/suzanne/whattess.html , printed 7/29/03, 4pgs.	
C50	MathWorld, "Conformal Mapping," http://mathworld.wolfram.com/ConformalMapping.html , printed 11/11/03.	
C51	McAfee et al, "Teleoperator Subsystem/Telerobot Demonstrator," Force Reflecting Hand Controller Equipment Manual, Jet Propulsion Laboratory, January 1988.	
C52	Miller <i>et al.</i> , "The Design of 3D Haptic Widgets," Proceedings of the 1999 Symposium on Interactive 3D Graphics Conference Proceedings, (1999) pp. 1-6.	
C53	Millman <i>et al.</i> , "A System for the Implementation and Kinesthetic Display of Virtual Environments," Telemanipulator Technology, Proceedings of 1992 SPIE, Vol. 1833, pp. 49-56.	
C54	Minsky <i>et al.</i> , "Feeling and Seeing: Issues in Force Display," COMPUTER GRAPHICS, Vol. 24, No. 2, March 1990, pgs. 235-270.	
C55	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," Massachusetts Institute of Technology Ph.D. Thesis, June, 1995, pgs. 1-217.	
C56	Models and Modeling," http://www.3drender.com/models/index.htm , printed 7/29/03, 1 pg.	
C57	Morgenbesser, "Force Shading for Shape Perception in Haptic Virtual Environments", Massachusetts Institute of Technology Master of Engineering Thesis, September, 1995, pgs. 1-77.	
C58	Nagel, "A Closer Look: Photoshop's New Paint Engine, Page 2 of 3," March 07, 2002, http://www.creativemac.com/2002/03_mar/features/ps7dynamics1.htm (6 pgs.).	
C59	Nicholson, "Photoshop," http://iit.bloomu.edu/vthc/Photoshop/Basics/layers.htm , printed 9/12/03.	
C60	"Nurbs Curves & Surfaces," http://www.ocnus.com/NURBS/ , printed 7/29/2003, 2 pgs.	
C61	"NURBS Models," http://www.3drender.com/models/models.htm , 7/29/03, 1 pg.	
C62	"NURBS-Non-Uniform Rational B-Splines," http://www.aria.uklinux.net/nurbs.php3 , printed 7/29/03, 4 pgs.	
C63	Oboe, "Force-Reflecting Teleoperation Over the Internet: The JBIT Project," Proceedings of the IEEE, Vol. 91, No. 3, pp. 449-462 (March 2003).	
C64	Payne <i>et al.</i> , "Distance Field Manipulation of Surface Models," IEEE Computer Graphics & Applications, pp. 65-71 (January 1992).	
C65	Photoshop Techniques, "How to Use Postscript Art as a Stencil in Photoshop," Swanson Technical Support, 1994.	
C66	Rogers, "An Introduction to NURBS," Morgan Kaufmann Publishers, (2000), pp.1-4.	
C67	Roxen Platform, "Graphics tags," http://docs.roxen.com/roxen/1.3/creator/graphics/ , printed 9/12/03, 2 pgs.	
C68	Safaric <i>et al.</i> , "Control of Robot Arm with Virtual Environment via the Internet," Proceedings of the IEEE, Vol. 91, No. 3, pp. 422-429 (March 2003).	

EXAMINER	DATE CONSIDERED
----------	-----------------

FORM PTO - 1449		ATTORNEY DOCKET NO.: SNS-013
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Berger et al.
		SERIAL NO.: 10/733,862
		FILING DATE: December 10, 2003 GROUP: 2676
C69	Salisbury <i>et al.</i> , "Haptic Rendering: Programming Touch Interaction with Virtual Objects," Presented and disseminated at the 1995 Symposium on Interactive 3D Graphics held April 9-12, 1995 in Monterey, CA, sponsored by the Association for Computing Machinery (ACM) and published by the ACM in Proceedings: 1995 Symposium on Interactive 3D Graphics, Monterey, California, April 9-12, 1995, pgs. 123-130.	
C70	SensAble Technologies, Inc., "Phantom Haptic Interface," 1996, Cambridge, MA (6 pgs).	
C71	Sensable Technologies, "Feature Overview," 11/25/03 printout, http://www.sensable.com/products/3ddesign/freeform/overview.asp , 5 pgs.	
C72	Sensable Technologies, "Feature Overview: Emboss with Wrapped Image," 11/25/03 printout, http://www.sensable.com/products/3ddesign/freeform/emboss_with_wrap.asp , 1 pg.	
C73	SensAble Technologies, "Leap from 2D to 3D," undated, 7 pgs.	
C74	Sharman, "The Marching Cubes Algorithm," http://www.exaflop.org/docs/marchcubes/ind.html (6 pgs.).	
C75	Snow <i>et al.</i> , "Compact Force-Reflecting Hand Controller," NASA Tech Brief, Vol. 15, No. 4 from Jet Propulsion Laboratory Report NPO-17851-7348, April 1991, pgs. i, 1-3, 1a-11a, 14a, 15a.	
C76	Sorkine, et. al, "Bounded-distortion Piecewise Mesh Parameterization," Proceedings of the Conference on Visualization 2002, Boston, Massachusetts, pgs. 355-362.	
C77	Swarup, "Haptic Interaction with Deformable Objects Using Real-Time Dynamic Simulation", Massachusetts Institute of Technology, September 1995, pgs. 1-83.	
C78	Tan <i>et al.</i> , "Virtual Environments for Internet-Based Robots – I: Modeling a Dynamic Environment," Proceedings of the IEEE, Vol. 91, No. 3, pp. 383-388 (March 2003).	
C79	Tan <i>et al.</i> , "Virtual Environments for Internet-Based Robots – II: Path Planning," Proceedings of the IEEE, Vol. 91, No. 3, pp. 389-395 (March 2003).	
C80	"Tensor product spline surfaces," http://www.ibiblio.org/e-notes/Splines/Inter.htm , 8/24/01.	
C81	Terzopoulos <i>et al.</i> ; "Elastically Deformable Models"; COMPUTER GRAPHICS, Vol. 21, No. 4, pgs. 205-214 (July, 1987).	
C82	"Texture Mapping," http://www.geocities.com/SiliconValley/2151/tmap.html , printed 11/26/03, 22 pgs., Feldman, The Win95 Game Programmer's Encyclopedia	
C83	"3D Animation Workshop: Lesson 39 – Softimage – NURBS Blending," http://www.webreference.com/3d/lesson39/ , 4/28/98.	
C84	"3D Animation Workshop: Lesson 64 – Introducing MAX NURBS," http://www.webreference.com/3d/lesson64/ , 4/14/99.	
C85	"3D Animation Workshop: Lesson 65 – Basic MAX NURBS Surfaces," http://www.webreference.com/3d/lesson65/ , 4/28/98.	
C86	"3D Animation Workshop: Lesson 66 – From MAX NURBS to Polygons," http://www.webreference.com/3d/lesson66/ , 5/12/99.	
C87	"3D Animation Workshop: Lesson 67 – Basic MAX NURBS Patches," http://www.webreference.com/3d/lesson67/ , 5/12/99.	
C88	"3D Animation Workshop: Lesson 68 – Trimming MAX NURBS," http://www.webreference.com/3d/lesson68/ , 6/8/99.	
C89	"3D Animation Workshop: Lesson 69 – MAX NURBS – The Piston Project," http://www.webreference.com/3d/lesson69/ , 7/21/99.	
C90	"3D Animation Workshop: Lesson 72 – A Challenging Model," http://www.webreference.com/3d/lesson72/ , 8/2/99.	
C91	"3D Animation Workshop: 3D Modeling Tutorials, Lessons, and Software Reviews," http://www.webreference.com/3d/ , 5/8/01, 6 pgs.	
C92	Tyson, Howstuffworks, "How AGP Works," http://computer.howstuffworks.com/agp.htm/printable , printed 7/15/03.	

EXAMINER	DATE CONSIDERED
-----------------	------------------------

FORM PTO - 1449		ATTORNEY DOCKET NO.: SNS-013
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Berger et al.
		SERIAL NO.: 10/733,862
		FILING DATE: December 10, 2003 GROUP: 2676
	C93	Wang <i>et al.</i> , "Volume Sculpting", 1995 Symposium on Interactive 3D Graphics, Monterey, California, pgs. 151-156.
	C94	University of North Carolina at Chapel Hill, "Touch-Enabled 3D Model Design," Department of Computer Science, February 2002.
	C95	Yoshikawa <i>et al.</i> , "Construction of Virtual World Using Dynamics Modules and Interaction Modules," Proceedings of the 1996 IEEE International Conference on Robotics and Automation (Minneapolis, MN), pp. 2358-2364 (April 1996).
	C96	Zilles <i>et al.</i> , "A Constraint-Based God-object Method for Haptic Display," published by IEEE Computer Society Press, Los Alamitos, California, in Proceedings of the 1995 IEEE/RSJ International Conference on Intelligent Robots and Systems - Human Robot Interaction and Cooperative Robots, held August 5-9, 1995 in Pittsburgh, Pennsylvania, 1995, pgs. 146-151.
	C97	Zilles, "Haptic Rendering with the Toolhandle Haptic Interface," Massachusetts Institute of Technology Master of Science Thesis, May 1995, pgs. 1-46.
	C98	Deering, "Revival of the Virtual Lathe," http://www-vrl.umich.edu/sel_prj/lathe/ , December 20, 2002.

1711980

EXAMINER	DATE CONSIDERED
-----------------	------------------------